

## 70.31 3 PHASE AC LINE MONITORING RELAY

### 1 OUTLINE DRAWING

### 2 WIRING DIAGRAM

11-14 output Make contact  
11-12 output Break contact

### 3 FRONT VIEW (detail)

#### 3a Function selector

**UV** Undervoltage without memory  
**UVm** Undervoltage with memory  
**OV** Overvoltage without memory  
**OVm** Overvoltage with memory  
**W** Window Mode without memory  
**Wm** Window Mode with memory

#### 3b LED 1 (green)

#### 3c LED 2 (yellow)

#### 3d LED 3 (red)

#### 3e Switch-off delay time (T on function diagrams) adjustable (0.5...60)s

#### 3f Maximum voltage selector (380...480)V

#### 3g Minimum voltage selector (300...400)V

### 4 FUNCTIONS

#### 4a Undervoltage (UV and UVm functions)

#### 4b Overvoltage (OV and OVm functions)

#### 4c Window mode (overvoltage + undervoltage, W and Wm functions)

#### 4d Phase loss and phase rotation

### NOTE

Hysteresis (H on function diagrams): 10 V

Power-on activation time: 1s

Switch-on lock-out time: 1s

Positive safety logic - Make output contact opens if the relay detects an error

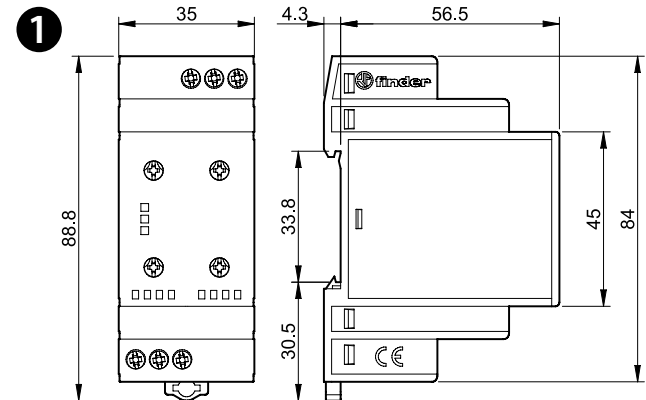
### \*RESET MEMORY

To reset, it is necessary to switch the supply OFF and then ON again (U OFF U ON) or to rotate the function selector first to an adjacent position and then to the original position.



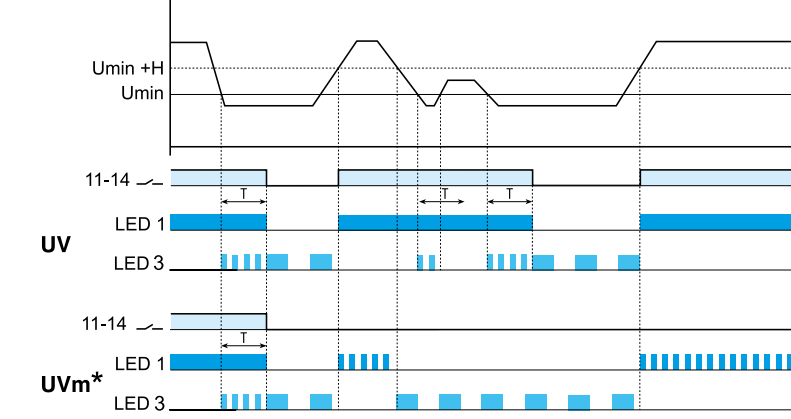
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<b>70.31.8.400.2022</b>	
	$U_N$ (380...415) V AC (50/60 Hz) $U_{min}$ 220 V AC $U_{max}$ 510 V AC
	P 11 VA / 0.9 W
	1 CO (SPDT) 6 A 250 V AC
	AC1 1500 VA AC15 (230 V AC) 500 VA
	(M) (230 V AC) 0.185 kW
	DC1 (30/110/220) V (6/0.2/0.12) A
	(-20...+60)°C
IP20	

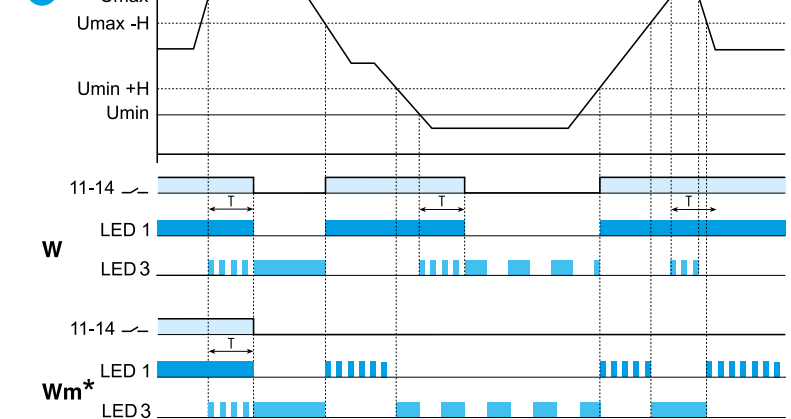


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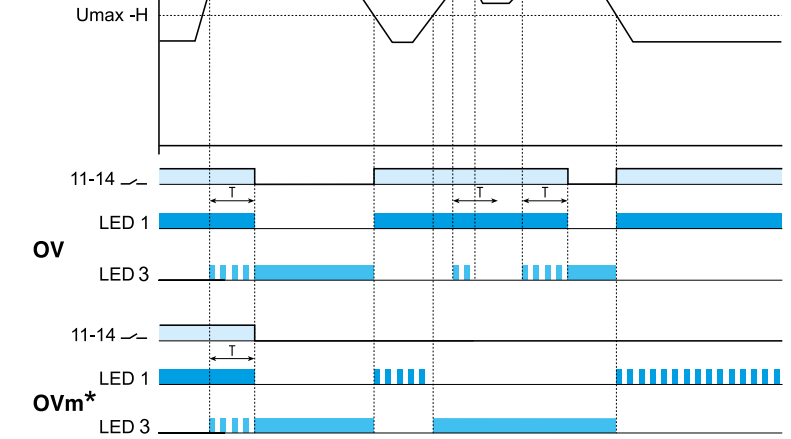
4a



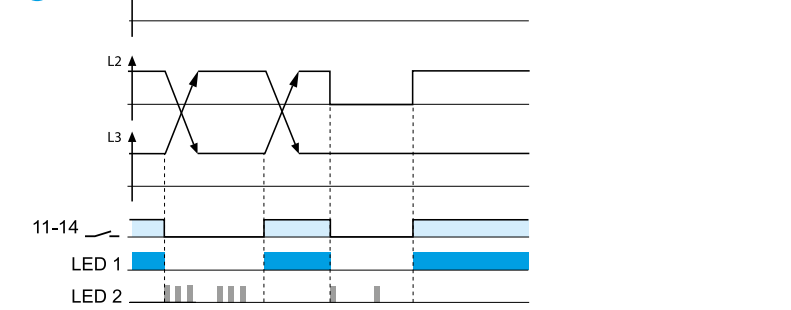
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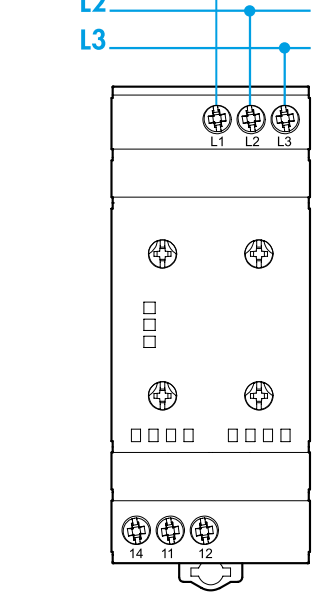
4b



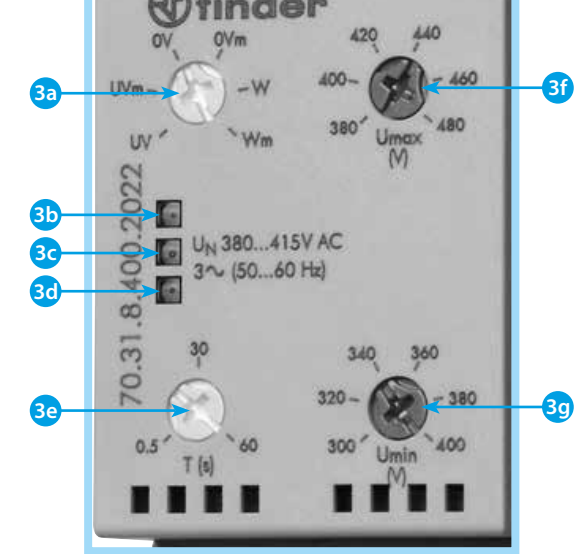
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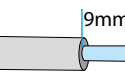
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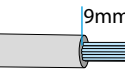
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0.8 Nm



9mm  
(1x6/2x4) mm<sup>2</sup>  
(1x10/2x12) AWG



9mm  
(1x4/2x2.5) mm<sup>2</sup>  
(1x12/2x14) AWG